



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

649.5010

Job Sheet 169180



Part No: 649.5010

Job Qty: 5 ea

Part Name: Deflector



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 12/4/17

Job Tracking No:

Due Date: 1/12/18

Created By: Mario Poulin

Type: SOLD

Description:

Note: DWG REV D IPP REV C RQ 13/10/8 VERIFIED BY:JLM

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time	
90	Start up Operation	5 Ea		1/11/18	0.00	0.00	Start Up Machining-1		S.C.
100	Bandsaw	5 pcs		1/11/18	0.00	0.50	Bandsaw1		S.C.
110	CNC Vertical Machining	5 pcs		1/12/18	0.00	8.33	HAAS1-1		S.C. / B.A.
120	QC	5 pcs		1/12/18	0.00	0.00	QC2 Machining-1		S.C. / B.A.
130	QC	5 pcs		1/12/18	0.00	0.00	QC8 Machining-1		18-1-5
140	Outsource	5 pcs		1/12/18			ATG001-VC	Outsource 4	ATG 02/07
150	Packaging	5 pcs		1/12/18	0.00	0.00	Packaging2		ATG 02/07 DAS
160	QC	5 pcs		1/12/18	0.00	0.00	QC5 QC6		35 11
180	Packaging	5 pcs		1/12/18	0.00	0.00	Packaging3-1		FEB 2 3 2018
190	QC21-SA	5 Ea		1/12/18	0.00	0.00	QC21		DAS 21 FEB 2 6 2018

Part Op 100 - Cut Blanks at 40.00"

Descriptions: 110 - 1-Machine per folio FB215 DWG REV: _____ FOLIO REV: _____ 2- deburr and break all sharp edges

120 - QC2- Inspect parts off machine FAI/FAIB

130 - QC8- Inspect parts - second check

140 - Outsource process-Anodize per QSI017 4.1.10.1 Issue P/O to ATG: _____ AS PER MPP-172 SECTION 2.1, HARD ANODIZE COLOR BLACK, PER IAW MIL-A-8625 TYPE 3 CLASS 2 AS PER MPP-172 SECTION 4.2, PRIME AS PER IAW MIL-PRF-23377 TYPE 1 CLASS N Certification of Conformity is required

150 - Receive & Inspect for Damage & Mat'l Certs

160 - QC5- Inspect part completeness to step on W/O

180 - Identify as per dwg & Stock Location: _____ ***IDENTIFY AS PER APICAL MPP-120 BY STAMPING P# AND REV***

190 - QC21- Final Inspection - Work Order Release

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	649.5010E	16	69	0	0

Part Specifications

Specifications could not be found.

BIS0634 → 16.7 ft
5027816

Plex 12/4/17 3:56 PM dart.poulin.mario

DART
AEROSPACE
S027817

Dart Aerospace Ltd.

1270 Aberdeen Street
Hawkesbury, ON K64 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



Deflector

PART NO: 649.5010

Revision:

Operation: Start up Operation

Change No:

Mfg Date: 01/02/18

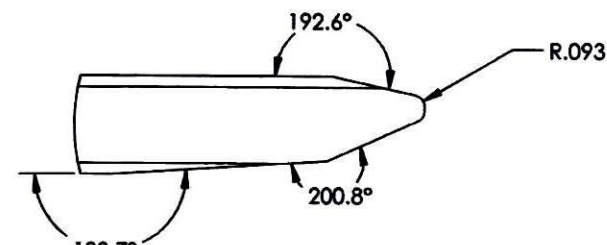
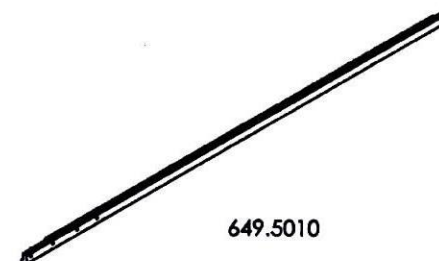
Job No: 169180

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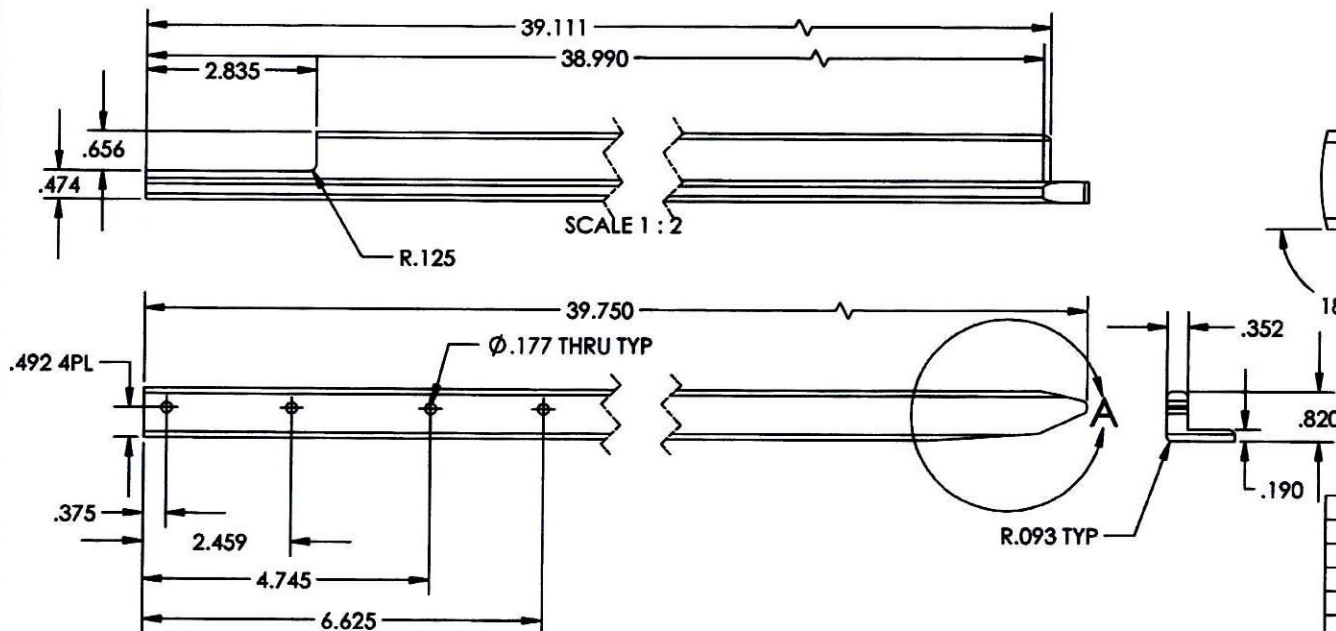
NOTES: UNLESS OTHERWISE SPECIFIED

1. PRIMARY MATERIAL: 7075-T651 ALUMINUM PER AMS-QQ-A-250/12.
ALTERNATE MATERIAL: 7075-T6511 ALUMINUM PER AMS-QQ-A-200/11.
2. FINISH: ANODIZE IAW MPP-172 SECTION 2.1;
PRETREAT IAW MPP-172 SECTION 3.1;
PRIME IAW MPP-172 SECTION 4.2; 1-2 MIL MAX.
3. DE BURR AND BREAK ALL SHARP EDGES.
4. IDENTIFY IAW MPP-120. LASER ETCH P/N AND REVISION, 12 PT. CENTURY GOTHIC.
5. ALL DIMENSIONS SHOWN PRIOR TO FINISH.
6. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5010 DEFLECTOR.SLDPRG, LAST MODIFIED 04-16-12.
7. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5012 DEFLECTOR.SLDPRG, LAST MODIFIED 11-03-11.
8. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5013 DEFLECTOR.SLDPRG, LAST MODIFIED 04-16-12.
9. PART DIMENSIONS CONTROLLED BY CAD MODEL FILE: 649.5014 DEFLECTOR.SLDPRG, LAST MODIFIED 04-04-17.

REV.	DESCRIPTION	DATE	APPROVED
INITIAL RELEASE		11-05-11	P. BRAVO
A	INCORPORATED ECH 03422 AND 03478	04-16-12	P. BRAVO
B	INCORPORATED ECH 03504	05-02-12	P. BRAVO
C	INCORPORATED ECH 03521	05-22-12	P. BRAVO
D	INCORPORATED ECH 04061, 03495 & 05730	04-04-17	P. BRAVO



DETAIL A
SCALE 1:1



FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
5	649.5014	DEFLECTOR	△	△△
4	649.5013	DEFLECTOR	△	△△
3	649.5012	DEFLECTOR	△	△△
2	649.5011	DEFLECTOR	△	△△
1	649.5010	DEFLECTOR	△	△△

QTY	DESCRIPTION	REVISION
5	DEFLECTOR	11-05-11
4	DEFLECTOR	04-16-12
3	DEFLECTOR	05-02-12
2	DEFLECTOR	05-22-12
1	DEFLECTOR	04-04-17

ORIGINAL DATE	11-05-11
DRAWN BY	A. QUAN
CHECKED BY	P. BRAVO
APPROVED BY	
DATE	11-05-11
CONTRACT NO.	

UNLESS OTHERWISE SPECIFIED	ALL DIMENSIONS ARE IN INCHES
TOLERANCES ARE:	
2 PLACE DECIMALS	±.010
3 PLACE DECIMALS	±.005
ANGLES	±.5°

3030 ENTERPRISE CT.	SUITE A
VISTA, CA, 92081	(760)-724-5300

DEFLECTOR	
REV. D	649.5000
SCALE: NONE	SHEET 1 OF 5



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER PO038743

Supplier: ATG001-VC
A.T.G. Industries Inc
731 INDUSTRIELLE ROAD
ROCKLAND
ON
K4K 1T2 Canada
Phone: 613-446-4544
Fax: 613-446-4556

Attention: Lalande, Marc-Andre

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: PO038743

PO Date: 1/8/18

Due Date: 2/1/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Baker, Diane
Phone: dbaker@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

JAN 23 2018

Items

Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	166820	D4838-1	Upper Cutter Body, LH Issue P/O: _____ ATG, Hard Black Anodize and Prime as per Dwg D4838-1 Rev. A	Firmed	2/1/18	10 pcs	0 pcs	10 pcs	\$11.61/pcs	\$116.10
2	169613	D4703-043	Lock Pin Base Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, As Per Dwg D4703	Firmed	2/1/18	4 pcs	0 pcs	4 pcs	\$4.06/pcs	\$16.24
3	168229	646.3313	Upper Guide Issue P/O to ATG: _____ Hard Anodize Color Black and Prime as per DWG 646.3300	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$14.46/pcs	\$86.76
4	168224	646.3210	Support Issue P/O to ATG: _____ 1- Hard Anodize Color Black and Prime as per Dwg 646.3200	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$15.71/pcs	\$94.26
5	168265	646.9710	Body Issue P/O to ATG: _____ Hard Black Anodize Color Black and Prime as per Dwg 646.9700	Firmed	2/1/18	12 pcs	0 pcs	12 pcs	\$15.86/pcs	\$190.32
6	165649	646.9811	Upper Deflector Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, PRIME AS PER DWG 646.9800 REV. A	Firmed	2/1/18	16 pcs	0 pcs	16 pcs	\$33.96/pcs	\$543.36
7	169180	649.5010	Deflector Issue P/O to ATG: _____ HARD ANODIZE COLOR BLACK, AND PRIME AS PER DWG 649.5000 REV. D	Firmed	2/1/18	5 pcs	0 pcs	5 pcs	\$35.36/pcs	\$176.80
8	169184	649.5214	Bracket Issue P/O to ATG: _____ Hard Anodize Color Black and Prime as per Dwg 649.5200	Firmed	2/1/18	5 pcs	0 pcs	5 pcs	\$10.36/pcs	\$51.80
9	169748	650.9201		Firmed	2/1/18	20 pcs	0 pcs	20 pcs	\$7.96/pcs	\$159.20

JAN 24 2018



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Canada

Tel (613) 632-5200

PURCHASE ORDER PO038743

Items										
Line Item	Job	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
10	169630	D4842-1	Eyelet Bracket Assembly Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 650.9200	Firmed	2/1/18	8 pcs	0 pcs	8 pcs	\$13.41/pcs	\$107.28
11	169388	647.7819	Lower Cutter Deflector Outsource process- Issue P/O to ATG : _____ HARD ANODIZE COLOR BLACK, PRIME AS PER DWG D4842	Firmed	2/1/18	10 pcs	0 pcs	10 pcs	\$12.61/pcs	\$126.10
12	168245	646.3715	Cross Bracket Fwd Issue P/O to ATG : _____ HARD ANODIZE COLOR BLACK, AND PRIME AS PER DWG 647.7819	Firmed	2/1/18	10 pcs	0 pcs	10 pcs	\$7.61/pcs	\$76.10
13	168267	646.9712	Strut Doubler Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.3700	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$15.86/pcs	\$95.16
14	168268	646.9713	Body Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as per Dwg 646.9700	Firmed	2/1/18	5 pcs	0 pcs	5 pcs	\$8.86/pcs	\$44.30
15	169381	647.1610	Body Issue P/O to ATG : _____ Anodize, Color Black, Prime as per Dwg 646.9700	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$12.06/pcs	\$72.36
16	169485	647.7612	Wiper Deflector Fwd Issue P/O to ATG : _____ 1- Hard Anodize, Color Black and Prime as per Dwg, 647.1600	Firmed	2/1/18	6 pcs	0 pcs	6 pcs	\$12.06/pcs	\$72.36
17	166816	D4823-1	Breakaway Tip Issue P/O to ATG : _____ Hard Anodize, Color Black and Prime as Per Dwg 647.7600	Firmed	2/1/18	12 pcs	0 pcs	12 pcs	\$12.51/pcs	\$150.12
Grand Total:									\$2,178.62	

Order Notes

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program



A.T.G. Industries Inc.
731 Industrielle Street
Rockland, ON K4K 1T2
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

Pack List

Number: 914594

Date: 06-Feb-18

To

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ship To

Chantal Lavoie
Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

Fax: 613 632-1053

Terms		Ship Via	
Quantity	Description		
	Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.		
10 ea	Part: 646.3715 Strut Doubler Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0006-.0009" (.6 - .9 mils) per drawing. Job: 22358	Rev: A PO: PO038743	Line: 12
12 ea	Part: 646.9710 Body Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (.1 - .2 mils) per drawing Job: 22352	Rev: D PO: PO038743	Line: 5
5 ea	Part: 649.5010 Deflector Hard Black Anodize per MIL-A-8625F, Type III, Class 2, .0005-.0045" (.5 - 4.5mils) Prime per MIL-PRF-23377, Type I, Class N (Customer Supplied), .0001-.0002" (.1 - .2 mils) per drawing. Job: 22354	Rev: D PO: PO038743	Line: 7
CERTIFICATE OF CONFORMANCE A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements. Date: <u>6/2/18</u> Certified Signature: <u>[Signature]</u> Receiver Signature: _____ A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited. Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of Made in Canada.			

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